



Indiana Department of Environmental Management
Office of Water Quality
Wetlands Section

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March 2, 2010

IDEM ID Number:
2010-073-15-JWR-A

Closing Date:
March 22, 2010

Corps of Engineers ID Number:
Not Available

PUBLIC NOTICE

To all interested parties:

This letter shall serve as a formal notice of the receipt of an application for **Section 401 Water Quality Certification** by the Indiana Department of Environmental Management (IDEM). The purpose of the notice is to inform the public of active applications submitted for water quality certification under Section 401 of the Clean Water Act (33 U.S.C. § 1341) and to solicit comments and information on any impacts to water quality related to the proposed project. IDEM will evaluate whether the project complies with Indiana's water quality standards as set forth at 327 IAC 2.

1. **Applicant:** Mr. Barry Vessels
Corps of Engineers-Operations
P.O. Box 59
Louisville, KY 40201
2. **Agent:**
3. **Project location:** Various locations along the Ohio River. See Attachment A.
4. **Affected waterbody:** Indiana's portion of the Ohio River.
5. **Project Description:** The applicant proposes to dredge accumulated sediment from the navigational channel and certain lock and dam structures along the Ohio River. The dredge material will be disposed in deeper portions of the main channel. The purpose of the project is to maintain the Congressionally authorized 9-foot deep navigation channel and ensure the vessels pass safely through Indiana's portion of the Ohio River. This Water Quality Certification will only evaluate the potential impacts of dredge and disposal sites within Indiana's portion of the Ohio River. The locations are identified in Attachment A. For additional information visit the following webpage address:
<http://www.in.gov/idem/6394.htm>.

Comment period: Any person or entity who wishes to submit comments or information relevant to the aforementioned project may do so by the closing date noted above. Only comments or information related to water quality or potential impacts of the project on water quality can be considered by IDEM in the water quality certification review process.

Public Hearing: Any person may submit a written request that a public hearing be held to consider issues related to water quality in connection with the project detailed in this notice. The request for a hearing should be submitted within the comment period to be considered timely. The request should also state the reason for the public hearing as specifically as possible to assist IDEM in determining whether a public hearing is warranted.

Questions? Additional information may be obtained from Mr. Jason Randolph, Project Manager, at 317-233-0467. Please address all correspondence to the project manager and reference the IDEM project identification number listed on this notice. Indicate if you wish to receive a copy of IDEM's final decision. Written comments and inquiries may be forwarded to -

Indiana Department of Environmental Management
100 North Senate Avenue
MC65-42 WQS IGCN 1255
Indianapolis, Indiana 46204-2251
FAX: 317/232-8406

ATTACHMENT A

Drawings of Historic Dredging Sites
U.S. Army Engineer District, Louisville
Corps of Engineers

Project	River Miles	Chart No.	UTM North	UTM East	Cut	Disposal	Dredge Between 1979-2009
Wabash Island	848.0 to 848.6	31	4184037.771	409457.715	Indiana	Kentucky	7
JT Myers Lower AP	846	30	4183791.351	412004.417	Indiana	Kentucky	15
Diamond Island Bar	819.5 to 820.0	38	4193664.463	435972.993	Kentucky	Kentucky	0
Deadman's Bar	813.3 to 811.8	40	4189686.673	440365.744	Kentucky	Indiana & KY	2
Evansville Bend	791.5 to 793.0	44	4201272.055	449554.762	Kentucky	Kentucky	19
Watson Landind Bar	788.5 to 789.5	45	4196847.766	449619.091	Kentucky	Kentucky	2
Three Mile Bar	783.0 to 784.0	46	4195712.208	456847.548	Kentucky	Kentucky	1
Newburgh Lower AP	776.1	48	4197866.495	466564.870	Indiana & KY	Kentucky	17
Rockport Bar	745.6 to 747.0	54	4193287.709	497778.092	Kentucky	Kentucky	1
Anderson Bar	734.0 to 736.5	57	4201623.939	511168.578	Kentucky	Kentucky	6
Mussel Shoal Bar	728.0 to 730.0	58	4202179.039	518763.783	Indiana & KY	Indiana & KY	1
Fulton Bar	724.8 to 726.3	59	4196609.518	522101.653	Kentucky	Kentucky	5
Cannelton Lower AP	720.7	60	4194000.100	525337.890	Indiana & KY	Kentucky	23
McAlpine Lower AP	606.8	85	4238514.266	603758.753	Kentucky	Kentucky	26
Surge Basin, McAlpine Locks	606.0	85	4238223.805	603369.439	Kentucky	Kentucky	8
Louisville Portland Canal	604.0 to 604.5	85	4235747.729	607518.755	Kentucky	Kentucky	1
Louisville Gage Station	604.5	85	4236701.624	608561.189	Indiana	Kentucky	0
Craigs Bar	541.7 to 542.3	100	4285736.876	663130.163	Kentucky	Kentucky	0
Markland Lower AP	531.5	102	4293706.567	676556.320	Kentucky	Kentucky	14

Attachment B

Louisville District Dredge Sites						
N = Not Dredged Number = Cu. Yds of Material						
Mile	Site Name	2005	2006	2007	2008	2009
	Smithland Pool					
848	Wabash Bar	N	N	N	173964	93633
846	Lower AP JT Myers	12333	N	25337	N	N
	JT Myers Pool					
811.2	Tobacco Patch	N	N	N	N	N
792	Evansville Bend	95844	N	63726	95062	84230
789	Watsons Landing/KY Peninsula	N	N	N	N	N
783-784	Three Mile Bar	N	N	N	N	N
776.1	Lower AP Newburgh	9512	3704	4969	7522	N
	Newburgh Pool					
736	Anderson Bar	N	N	N	N	N
725-726	Fulton Bar	N	N	N	N	N
720.7	Lower AP Cannelton	20106	N	12189	12189	N
	Cannelton Pool					
606.8	Lower AP McAlpine	31226	55652	N	N	18670
	McAlpine Pool					
606	Surge Basin	N	N	N	N	44823
604.8	Head of Canal	N	N	N	N	N
531.5	Lower AP Markland	6252	N	N	N	N

MUSSEL BED & DREDGING SITES

Project

Newburgh Lock & Dam
Ohio River
Mile 776.1
Chart No. 48

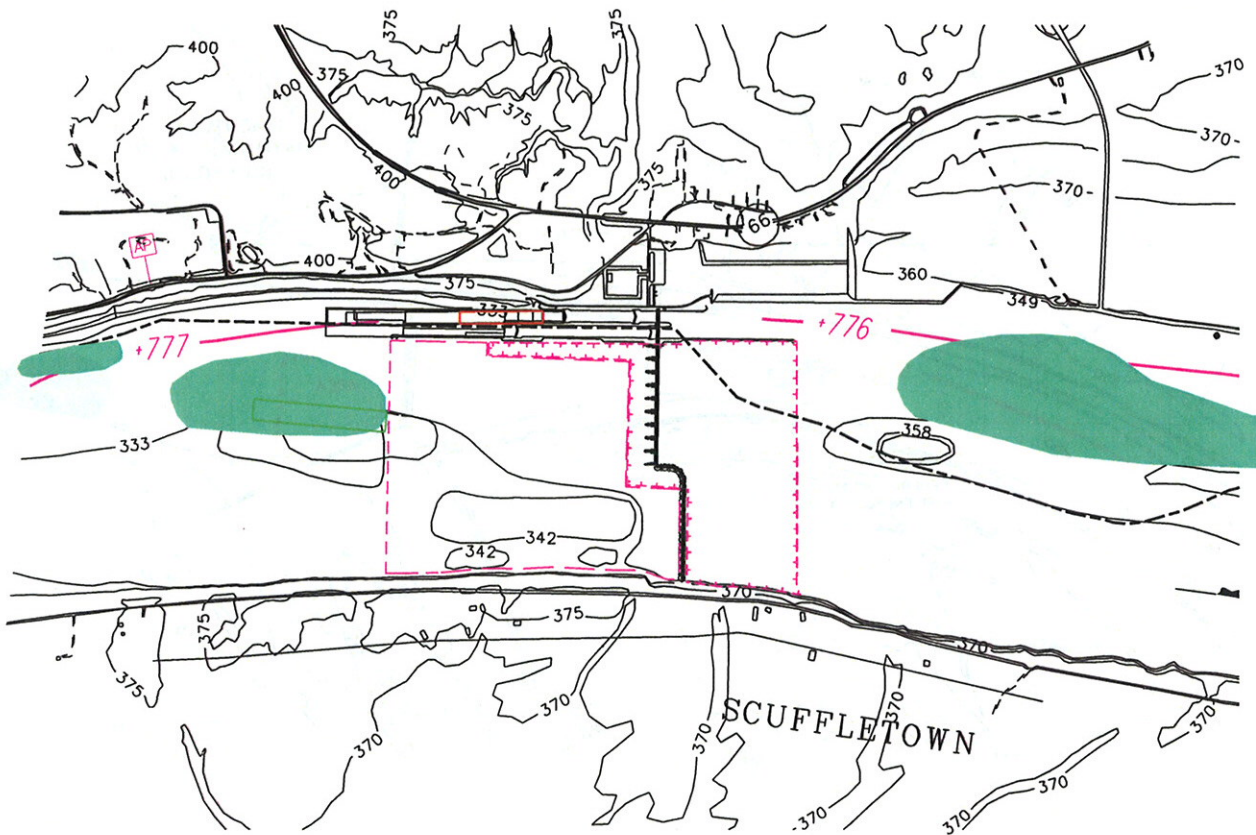
MUSSEL BEDS

COLOR	YEAR	CONTRACTOR	ACCURACY
Red	1998	W. DAVIS & T. SIEMSEN	DIFF GPS
Light Blue	1997	DIVE QST	DIFF GPS
Pink	1995	ARTHUR CLARKE	GPS
Green	1994	ESI DIVE SURVEY BRENT McCLAIN	DIFF GPS
Dark Green	1993	ESI ABOVE & BELOW 3 LOCKS	DIFF GPS
Yellow	1992	MALACOLOGICAL L&D 52 TO CAIRO	GPS
Orange	1991	ESE POOL 52	GPS
Light Green	1982	WILLIAMS & SCHUSTER	NO GPS
Blue	2000+	DIVE SURVEYS USING DGPS	

DIFF GPS GOOD TO 2 METER
GPS SURVEY GOOD TO 150 METER

DREDGE & DISPOSAL SITES

RED MOST RECENT DREDGE CUT
GREEN MOST RECENT DISPOSAL AREA
BLACK PAST DREDGE & DISPOSAL AREAS



Dredge Data

Date	Quantity Dredged
2002 7-12 / 7-14	13,282 cy
2004 7-17 / 7-18	17,175 cy
2005 7-11 / 7-12	9,512 cy
2006 7-22 / 7-23	3,704 cy
2007 7-23 / 7-24	4,969 cy
2008 7-15 / 7-17	7,522 cy

MUSSEL BED & DREDGING SITES

Project

McAlpine Lock & Dam

Ohio River









Mile 606.8

Chart No. 85

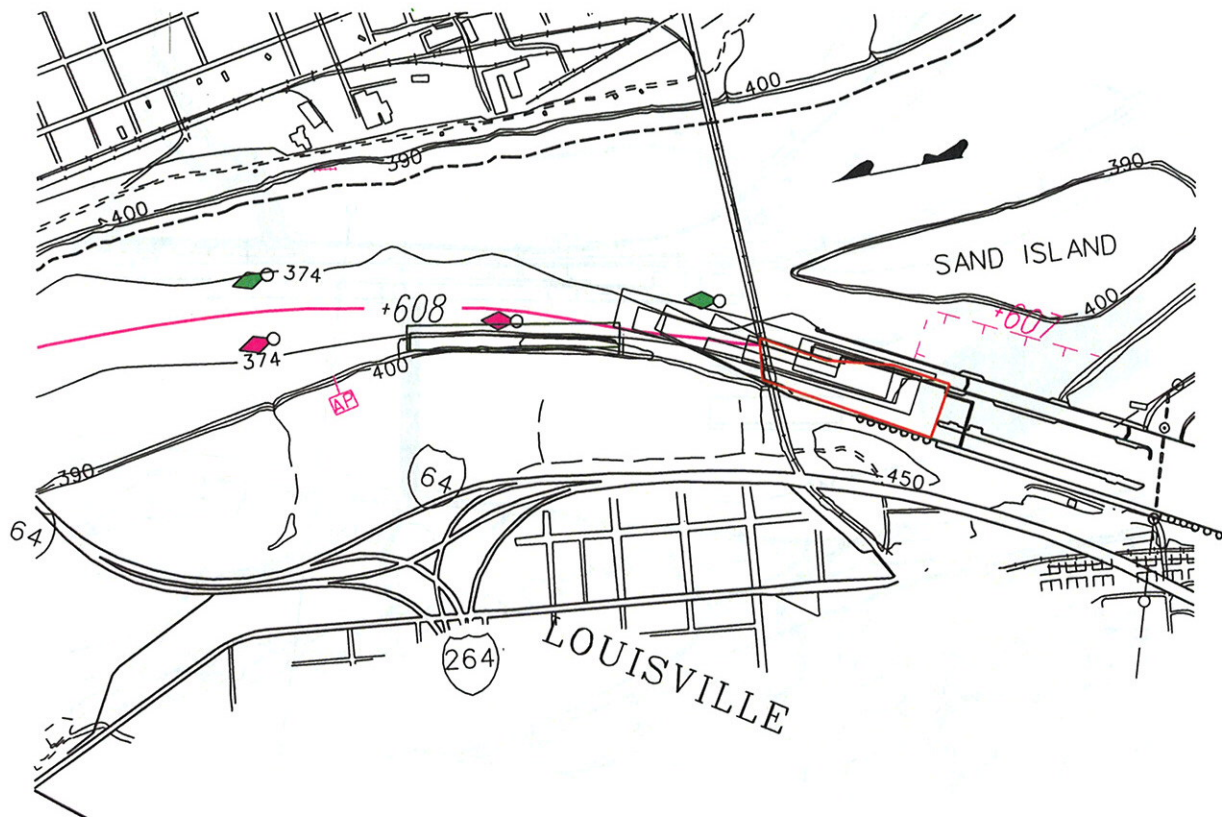
DREDGE & DISPOSAL SITES

RED	MOST RECENT DREDGE CUT
GREEN	MOST RECENT DISPOSAL AREA
BLACK	PAST DREDGE & DISPOSAL AREAS

MUSSEL BEDS

COLOR	YEAR	CONTRACTOR	ACCURACY
	1998	W. DAVIS & T. SIEMSEN	DIFF GPS
	1997	DIVE QST	DIFF GPS
	1995	ARTHUR CLARKE	GPS
	1994	ESI DIVE SURVEY BRENT McCLAIN	DIFF GPS
	1993	ESI ABOVE & BELOW 3 LOCKS	DIFF GPS
	1992	MALACOLOGICAL L&D 52 TO CAIRO	GPS
	1991	ESE POOL 52	GPS
	1982	WILLIAMS & SCHUSTER	NO GPS

DIFF GPS GOOD TO 2 METER
GPS SURVEY GOOD TO 150 METER



Dredge Data

<u>Date</u>	<u>Quantity Dredged</u>
2003 8-06 / 8-07	24,246 cy
2004 7-22 / 7-30	106,818 cy
2005 7-16 / 7-19	31,226 cy
2006 7-26 / 7-29	55,652 cy
2008 7-05 / 7-10	77,049 cy
2009 8-17 / 8-21	18,670 cy

MUSSEL BED & DREDGING SITES

Project

Cannetlon Lock & Dam
Ohio River
Mile 720.7
Chart No. 60

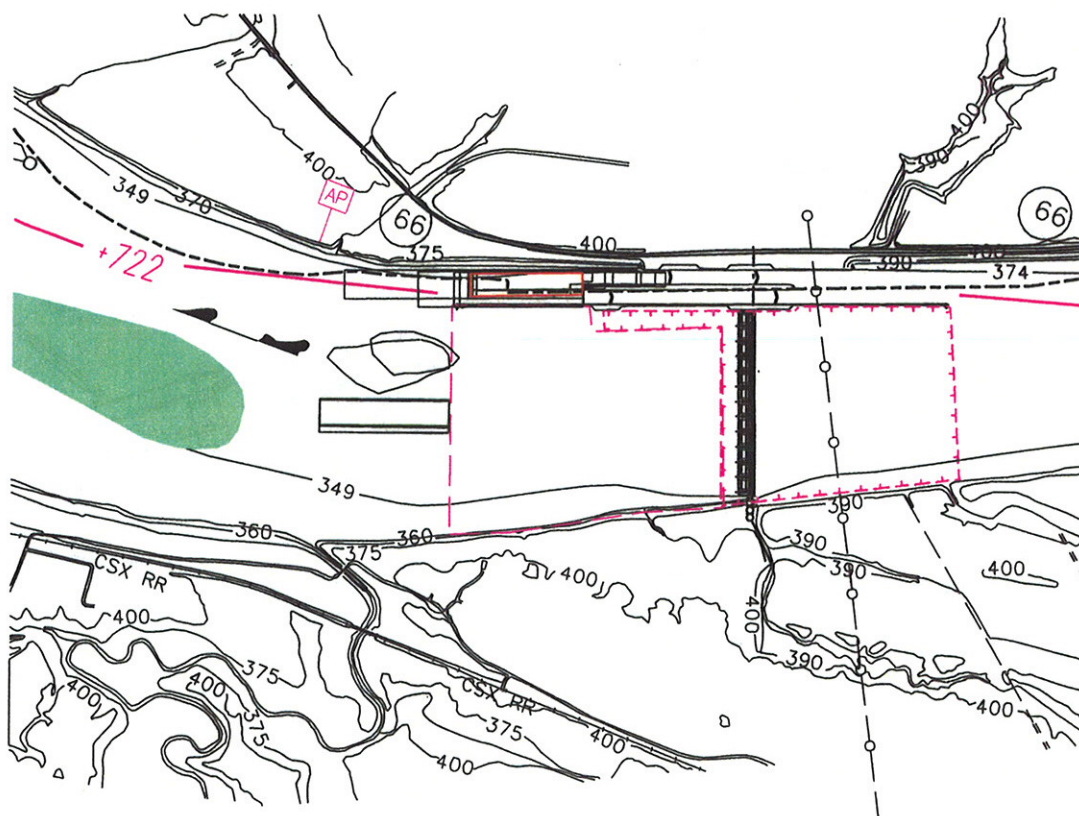
MUSSEL BEDS

COLOR	YEAR	CONTRACTOR	ACCURACY
█	1998	W. DAVIS & T. SIEMSEN	DIFF GPS
█	1997	DIVE OST	DIFF GPS
█	1995	ARTHUR CLARKE	GPS
█	1994	ESI DIVE SURVEY BRENT McCLAIN	DIFF GPS
█	1993	ESI ABOVE & BELOW 3 LOCKS	DIFF GPS
█	1992	MALACOLOGICAL L&D 52 TO CAIRO	GPS
█	1991	ESE POOL 52	GPS
█	1982	WILLIAMS & SCHUSTER	NO GPS

DREDGE & DISPOSAL SITES

RED MOST RECENT DREDGE CUT
GREEN MOST RECENT DISPOSAL AREA
BLACK PAST DREDGE & DISPOSAL AREAS

DIFF GPS GOOD TO 2 METER
GPS SURVEY GOOD TO 150 METER



Dredge Data

Date	Quantity Dredged
2002 7-15 / 7-17	100,185 cy
2003 7-30 / 8-05	23,268 cy
2004 7-19 / 7-21	28,453 cy
2005 7-13 / 7-15	20,106 cy
2007 7-25 / 7-27	12,189 cy
2008 8-26 / 8-28	15,232 cy

MUSSEL BED & DREDGING SITES

Project

JT Myers Lock & Dam
Ohio River
Mile 846.0
Chart No. 32

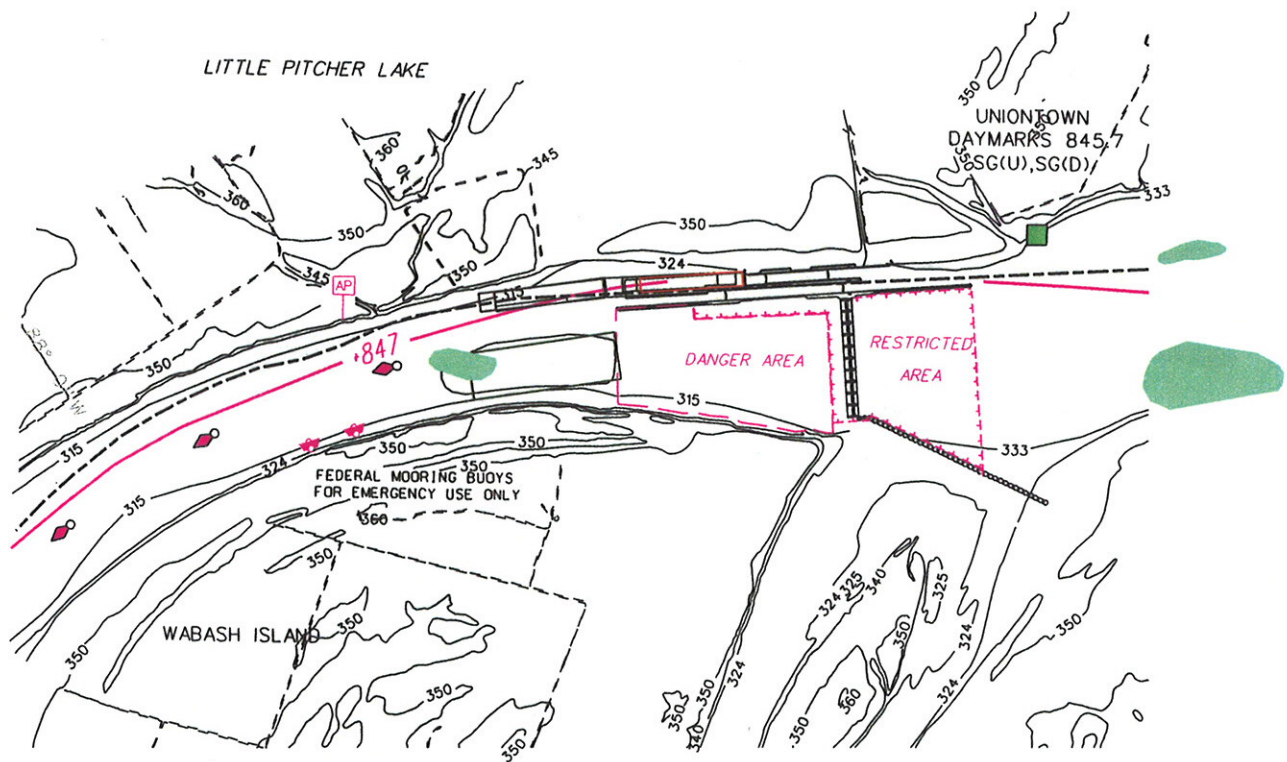
MUSSEL BEDS

COLOR	YEAR	CONTRACTOR	ACCURACY
█	1998	W. DAVIS & T. SIEMSEN	DIFF GPS
█	1997	DIVE QST	DIFF GPS
█	1995	ARTHUR CLARKE	GPS
█	1994	ESI DIVE SURVEY BRENT McCLAIN	DIFF GPS
█	1993	ESI ABOVE & BELOW 3 LOCKS	DIFF GPS
█	1992	MALACOLOGICAL L&D 52 TO CAIRO	GPS
█	1991	ESE POOL 52	GPS
█	1982	WILLIAMS & SCHUSTER	NO GPS
█	2000+	DIVE SURVEYS USING DGPS	

DIFF GPS GOOD TO 2 METER
GPS SURVEY GOOD TO 150 METER

DREDGE & DISPOSAL SITES

RED MOST RECENT DREDGE CUT
GREEN MOST RECENT DISPOSAL AREA
BLACK PAST DREDGE & DISPOSAL AREAS



Dredge Data

Date	Quantity Dredged
1997 8-10 / 8-15	64,255 cy
1999 7-15 / 7-19	19,564 cy
2004 7-08 / 7-11	50,315 cy
2005 7-05 / 7-06	12,333 cy
2007 7-16 / 7-18	25,337 cy

MUSSEL BED & DREDGING SITES

Project

Wabash Bar
Ohio River
Mile 848.0 to 850.0
Chart No. 31

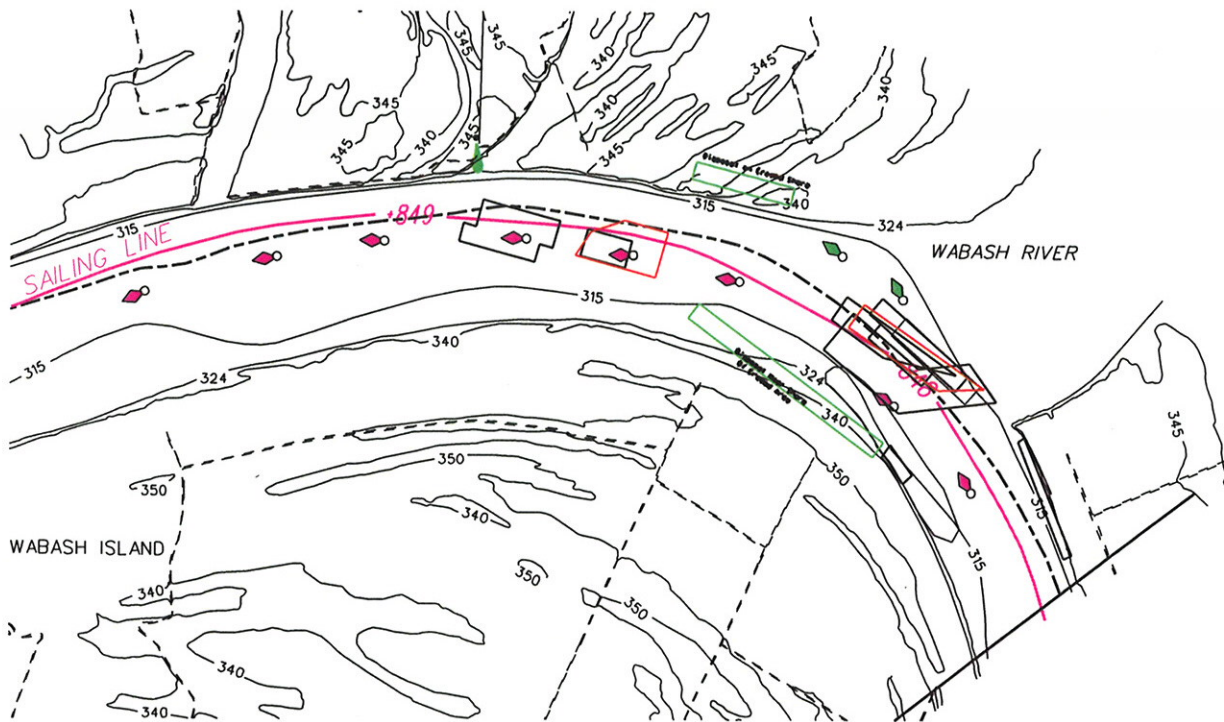
MUSSEL BEDS

COLOR	YEAR	CONTRACTOR	ACCURACY
█	1998	W. DAVIS & T. SIEMSEN	DIFF GPS
█	1997	DIVE OST	DIFF GPS
█	1995	ARTHUR CLARKE	GPS
█	1994	ESI DIVE SURVEY BRENT McCLAIN	DIFF GPS
█	1993	ESI ABOVE & BELOW 3 LOCKS	DIFF GPS
█	1992	MALACOLOGICAL L&D 52 TO CAIRO	GPS
█	1991	ESE POOL 52	GPS
█	1982	WILLIAMS & SCHUSTER	NO GPS
█	2000+	DIVE SURVEYS USING DGPS	

DIFF GPS GOOD TO 2 METER
GPS SURVEY GOOD TO 150 METER

DREDGE & DISPOSAL SITES

RED MOST RECENT DREDGE CUT
GREEN MOST RECENT DISPOSAL AREA
BLACK PAST DREDGE & DISPOSAL AREAS



Dredge Data

Date	Quantity Dredged
1998 9-01 / 9-03	16,691 cy
1998 10-09 / 10-13	42,791 cy
1999 7-13 / 7-15	19,813 cy
2008 6-27 / 7-2	111,080 cy
2008 8-22 / 8-25	62,884 cy
2009 8-03 / 8-10	93,633 cy